

This resource shows alignment between aspects of the achievement standard and relevant content descriptions for Years 5–6 band. A similar resource is available for Prep/other bands.

The Australian Curriculum (AC) v9.0 code for each content description includes an element indicating the strand it is organised by, e.g. AC9TDE6K01 indicates Knowledge and understanding strand.

Key to content description codes: Design and Technologies	
e.g. AC9TDE6K01	Strands:
Australian Curriculum (AC)	• K — Knowledge and understanding
Version 9 (9)	• P — Processes and production skills
Technologies Learning area (T)	
Design and Technologies (DE)	
Years 5–6 band (6)	
Strand (K, P)	
Content description number (##)	

Years 5–6 Australian Curriculum: Design and Technologies achievement standard

By the end of Year 6 students explain how people design products, services and environments to meet the needs of communities, including sustainability. For each of the 3 prescribed technologies contexts they explain how the features of technologies impact on design decisions and they create designed solutions. Students select and justify design ideas and solutions against design criteria that include sustainability. They communicate design ideas to an audience using technical terms and graphical representation techniques. Students develop project plans, including production processes, and select technologies and techniques to safely produce designed solutions.

Achievement standard aspect	Relevant content description/s	AC v9.0 code
By the end of Year 6	Students learn to:	
Students explain how people design products, services and environments to meet the needs of communities, including sustainability.	<ul style="list-style-type: none"> explain how people in design and technologies occupations consider competing factors including sustainability in the design of products, services and environments 	AC9TDE6K01
For each of the 3 prescribed technologies contexts they explain how the features of technologies impact on design decisions and they create designed solutions.	<ul style="list-style-type: none"> explain how electrical energy can be transformed into movement, sound or light in a product or system 	AC9TDE6K02
	<ul style="list-style-type: none"> explain how and why food and fibre are produced in managed environments 	AC9TDE6K03
	<ul style="list-style-type: none"> explain how the characteristics of foods influence selection and preparation for healthy eating 	AC9TDE6K04
	<ul style="list-style-type: none"> explain how characteristics and properties of materials, systems, components, tools and equipment affect their use when producing designed solutions 	AC9TDE6K05
	<ul style="list-style-type: none"> investigate needs or opportunities for designing, and the materials, components, tools, equipment and processes needed to create designed solutions 	AC9TDE6P01
They select and justify design ideas and solutions against design criteria that include sustainability.	<ul style="list-style-type: none"> negotiate design criteria including sustainability to evaluate design ideas, processes and solutions 	AC9TDE6P04
They communicate design ideas to an audience using technical terms and graphical representation techniques.	<ul style="list-style-type: none"> generate, iterate and communicate design ideas, decisions and processes using technical terms and graphical representation techniques, including using digital tools 	AC9TDE6P02
They develop project plans, including production processes, and select technologies and techniques to safely produce designed solutions.	<ul style="list-style-type: none"> select and use suitable materials, components, tools, equipment and techniques to safely make designed solutions 	AC9TDE6P03
	<ul style="list-style-type: none"> develop project plans that include consideration of resources to individually and collaboratively make designed solutions. 	AC9TDE6P05

More information

If you would like more information, please visit the QCAA website www.qcaa.qld.edu.au. Alternatively, email the K–10 Curriculum and Assessment branch at australiancurriculum@qcaa.qld.edu.au.

 © State of Queensland (QCAA) 2023

Licence: <https://creativecommons.org/licenses/by/4.0> | **Copyright notice:** www.qcaa.qld.edu.au/copyright — lists the full terms and conditions, which specify certain exceptions to the licence. | **Attribution** (include the link): © State of Queensland (QCAA) 2023 www.qcaa.qld.edu.au/copyright.

Unless otherwise indicated, material from Australian Curriculum is © ACARA 2010–present, licensed under [CC BY 4.0](https://creativecommons.org/licenses/by/4.0). For the latest information and additional terms of use, please check the [Australian Curriculum website](http://www.australiancurriculum.edu.au) and its [copyright notice](http://www.australiancurriculum.edu.au/copyright).